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H & V News

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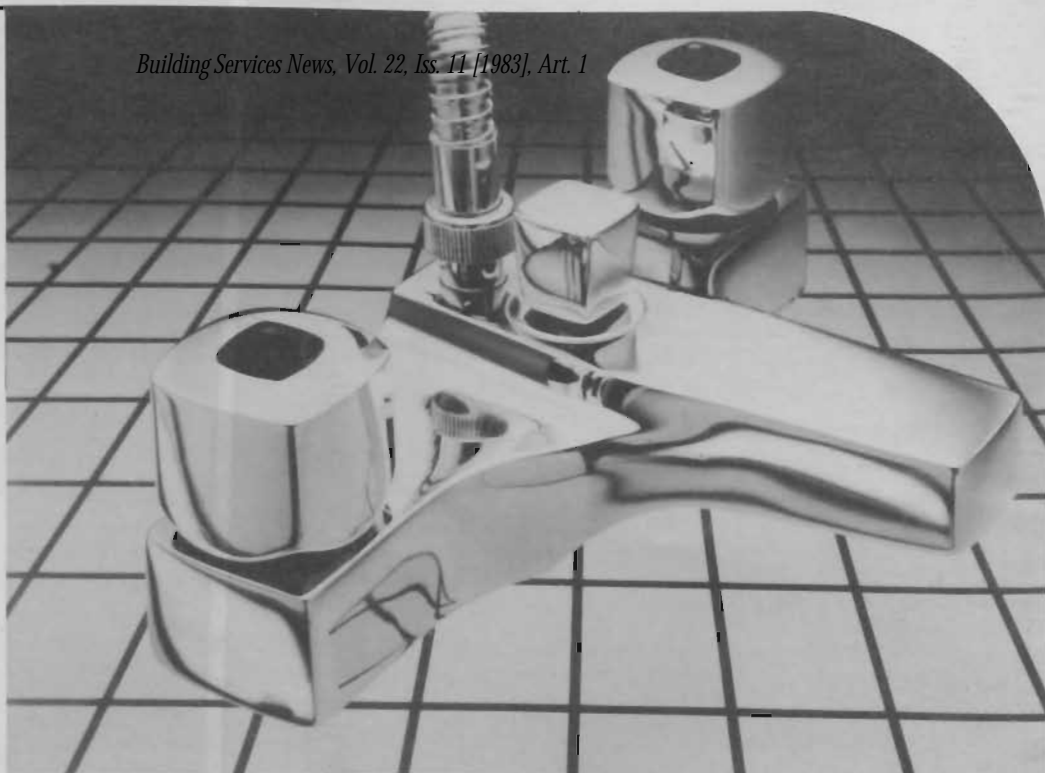
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NEWSDESK:

Kitemark for Barlo . . . Trail Blazing with Michael Austin . . . Passive Solar Design Workshop . . . Hevac Negotiates Exclusive Thermo-Air Deal . . . Seamus Homan Receives Mullins Silver Medal . . . Wonderfire 80% More Efficient . . . Centralised Energy Recovery . . . Thrifty Heat Pump from Walker . . . IDHE Programme of Events . . . Permastack Chimney System

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CIBS BULLETIN:

Picture report from CIBS Annual Dinner

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● CIBS President John Bolton.

ULSTER REVIEW:

Isaac Reid Gets "Life" . . . Rite-Vent Appoint Stephenson Turner . . . McGregor & Manning Anniversary . . . IDHE Branch Meetings . . . David Reynolds Appointed Wavin Gas Manager . . . Bob Moore Forms Own Company . . . CIBS (NI Region) Programme . . . John McVicar Goes It Alone

Pages 19/21



ANOTHER SIDE OF . . .

For Tom Scott, recently appointed a Director of Hevac, team spirit has always been an important part of his life. Indeed, it was in this context that he gained one of the most unique achievements in the history of sport in Ireland.

Page 22

THE McWHINGE FILE:

Ever wondered what happened to the characters in the great McWhinge drama of so many years ago? Well, we've traced their current whereabouts only to discover that, while a little older, Samuel Sleeveen, Mrs McWhinge, her nephew Fortinbrass Whinge and Jeremiah Bibcock are as active as ever.

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DUCTING & VENTILATING:

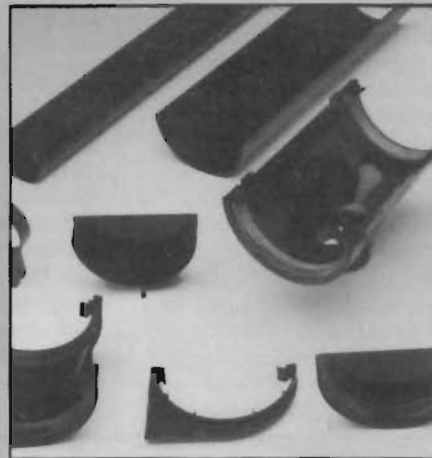
Concluding the series by Ian Sweeney, this month we examine the sticky problem of employee relations in the sector.

Pages 24/25

NEW PRODUCTS:

Gas Cookers By Thor . . . Advanced Technology From Potterton . . . Toshiba Cost-Cutter . . . Lead-free Fittings . . . Variations On Multibeton . . . Wavin's 5" Superline Rainwater System.

Pages 26/28



● Wavin's 5" Superline rainwater system.

NEXT MONTH

Another Side Of . . . goes North and talks with the well-known Isaac Reid whose passion is soccer. Isaac is a Director of Ards Football Club and plays a very active role in their activities.

IRISH H&V NEWS

IRELAND'S BUILDING SERVICES MAGAZINE

Managing Director: Gerard J Murphy

Editor: Patrick Lehane

Sub-Editor: Neil Steedman

Art Editor: John Gibney

Sales and Marketing Director: Patrick J Codyre

Advertisement Manager: Joe Warren

Technical Consultant: Ray Loughran MIDHE

Northern Advertisement Representative: Bob Armstrong, Suite 6, (Upper Floor) Carryduff Shopping Centre, Carryduff, Belfast. Tel: Belfast 813494.

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Irish Heating & Ventilating News circulates to key executives in the heating, ventilating, air conditioning, refrigeration, sanitaryware, plumbing and environmental control industries. Its circulation also includes energy managers, architects, designers, sanitary engineers, and environmental engineers in the 32 counties of Ireland.

ABC

KITEMARK FOR BARLO

The Kitemark, the British Standards Institution seal of merit, has been awarded to Ireland's leading manufacturer of domestic radiators. Barlo Heating Ltd, of Clonmel have been certified by the British Standards Institution for manufacturing radiators of a standard and quality laid down by the Institution, thus entitling them to carry the Kitemark in the UK.

The British Kitemark is awarded only to products that have passed the most stringent test procedures and is recognised by British consumers as a guarantee of the highest manufacturing standards.

Most of Barlo's radiators are exported to the UK, where its own unique style of radiator with a special distinctive rounded top has established it as one of the biggest selling radiators on the market.

According to Aidan Barlow, Barlo Group



● Pictured at the formal presentation of the BSI Certificate in London recently were Charles J Wheeler, Director/General Manager, Barlo Heating Ltd; John Charter, Director British Standards Institution; Aidan Barlow, Barlo Group Managing Director; and Robert Acheson, Technical Director, Barlo Heating Ltd.

Managing Director and founder of the Clonmel based company, the Kitemark will give the company's quality image in the UK even greater recognition, where it has already established itself as a market leader.

Barlo is the first Irish radiator manufacturer to be

awarded the Kitemark, and one of the few European manufacturers to succeed in obtaining the British Standard's Institution's new seal of approval for the manufacture of central heating radiators, since its implementation in January this year.

Passive Solar Design Workshop

A two-day workshop on passive solar design will be held at the University College Dublin School of Architecture on 8/9 December.

At its simplest, a passive solar building is one in which the walls, floors, roof and windows are arranged in a manner which maximises the benefit of solar heat in the winter months, whilst avoiding risks of overheating in summer.

The purpose of this workshop is to introduce the principles of passive solar design, to illustrate a number of built examples, and to provide guidelines in order that participants may use this approach to energy-efficient building in practice.

As part of the EEC's energy research and development programme, experts from each of the member states have prepared a "European passive solar handbook" and this will be launched at the workshop. The Dublin workshop is the first in a series to be held throughout Europe during 1984.

Details from Owen Lewis, UCD (Tel: 01-697111).

TRAIL BLAZING

With Michael Austin the pioneering spirit lives on in Irish industry. Taking a frontiersman's approach to living off the land, Michael set himself the task of designing a stove which would utilise native fuel resources and at the same time provide high heat output for low cost central heating.

The result is the Focal Stove which was specially developed by Michael's company, Quality

Engineering Developments Ltd of Skerries, Co Dublin, to burn such fuels as peat briquettes, sod turf, lignite and wood logs.

With the assistance of the Irish Goods Council, the company has formulated a marketing strategy which highlights the cost saving potential of the stove while maintaining an exceptional level of heat output.

Solidly constructed in

6mm all-welded steel plate with integral hot water boiler and radiant canopy, the Focal Stove is fitted with a rear flue allowing the unit to function as a stand alone heating system or to interlink with existing installations.

Finished in matt black with solid brass fittings and motif, the appearance is further enhanced by the large ceramic glass windows providing a homely "real fire" centre point for the living room, with the added convenience of a ceramic tile hot-plate.

Tests carried out on behalf of the manufacturers by the Institute for Industrial Research and Standards realised average heat outputs for the Focal Stove of 60,000 Btu/h — 17.5 KW when burning peat briquettes.

The Focal stove brings together old world style with modern standards of design and construction and the added bonus of substantial savings on costly fuel bills.



● The Focal stove in a country setting.

APPOINTMENT



● Frank Loughran has recently been appointed Sales Co-ordinator for CHS Ireland Ltd of Stillorgan Industrial Park, Stillorgan, Co Dublin. Frank had previously been with Hevac Ltd for almost 14 years.

Buying Irish Instantor

The only range
licensed to use the
Standard mark.



makes plumb good sense

Irish Instantor compression couplings. The right connections. Made in Ireland since 1934. Solid, reliable, the market leader. Standard bearers for Irish workmanship, Irish industry, Irish employment.

Irish Instantor is the only Irish made range and complies fully with the Irish Standard Specification for Compression Couplings, issued by the Institute for Industrial Research & Standards I.S. 239:1980. It is also the only range licensed to use the Irish Standard mark. Proof that Irish Instantor are setting the standards – and keeping them high – against increasing competition from overseas. Competition that will inevitably threaten Irish jobs.

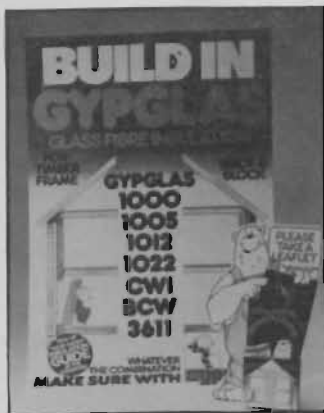
Only the Irish Instantor range bears the proven name and the standards to match. It makes plumb good sense to choose Irish Instantor – every time.

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Briefly . . .

● **Gypglas insulation guide:** A new pocket guide to domestic insulation has been produced by Gypglas. In an easy to understand way it covers all the insulation aspects of domestic building. It shows which product to use in order to



meet the building regulations. Loft, floors and both timber frame and brick and block walls are covered. Copies may be obtained from The Information Officer, Gyproc Glass Fibre Insulation Ltd, Whitehouse Industrial Estate, Runcorn, Cheshire, WA7 3DP.

● **BTU Golf:** There is nothing to report in this month's issue save to say that we trust you all enjoyed the dinner recently. The December edition will contain a full report, including photographs.

● **Fuel from water:** On Tuesday 25 October last, the Solar Energy Society of Ireland and the Werner Chemical Society of Trinity College, Dublin, jointly presented a lecture by Sir George Porter, FRS, Nobel Laureate, Director of the Royal Institution, entitled "Fuel from Water". His lecture dealt with work being carried out on the development of methods to produce fuels from water using sunlight, ie the creation of storable energy from solar energy. With the fuels so produced, it will be possible to replace many of the current uses of oil, eg electricity generation, house heating

Mullins Silver Medal Awarded

● The Mullins Silver Medal is awarded by the Institute of Engineers of Ireland for a paper of exceptional merit. It was awarded this year to Seamus Homan for his paper entitled "Energy Management in Buildings". The President of IEI Patrick Lynch (left) made the presentation to Seamus Homan.



CENTRALISED ENERGY RECOVERY

A novel method of energy recovery has been used in the textile plant of W P McCarter & Co, Buncrana, Co Donegal. As part of an overall programme of energy conservation, two new package boilers were installed to replace an old Lancashire boiler.

This alone was a financially beneficial exercise as the higher efficiency of

the new boilers saved enough energy to pay for them in seven years. However, BeMRA consulting engineers designed an energy recovery system based on converting the old Lancashire boiler to a central hot water store.

This store provided adequate storage to buffer the peak demands for energy in this factory.

Energy is to be recovered from hot water used in heat exchangers, from flash steam, from waste effluent and possibly from an incinerator.

The overall payback period of 1½-2 years means that the investment in energy saving equipment can be recovered rapidly and ongoing savings will be generated in future years.

Wonderfire 80% More Efficient

Bristol-based Wonderfire Ltd announced a major breakthrough in open gas fire design.

A new range of fires has been developed by Wonderfire which provide extra radiant heat compared to previous models, together with lower running costs. Independent tests show that radiant heat is increased by 25%, a great achievement with an open fire, and that overall efficiency is increased by a

massive 80%. Heat loss up the chimney is also reduced by the new fire.

Wonderfire's Sales
Director, Anthony Young, told us, "We expect this type of fire to dominate the market for decorative open fire-effect gas fires over the next few years. Our early lead should maximise the company's already healthy share of that market."

The new fires use realistic "logs" made from a ceramic fibre developed

during space vehicle research which can withstand very high temperatures and glow red-hot without damage.

Wonderfire was formed in 1976 and open their Bristol factory in 1978 to manufacture the decorative gas log fires. The company supplies more than 100 fireplace shops in the UK and the Republic, Irish agents being Bell Fireplaces Ltd, Rere 136 Botanic Road, Dublin 9, (Tel: 301777).



SEMINAR

● Pictured in Dublin recently at the seminar on "Building & Energy Management Systems" organised by the Institute for Industrial Research & Standards in conjunction with Arran Systems Ltd, Dublin, were (l to r) Barry Beeson, Massey Ferguson Ltd, Coventry; Tony Donnelly, Managing Director, Arran Systems Ltd; David Taylor, IIRS Energy Services; and John Saunders, Transmittion Ltd, UK.

SPECIAL AWARD FOR SPRING BATHROOMS

et al: H & V News



● **Spring Bathrooms** — Britain's fastest-growing acrylic bath manufacturers — received a special silver trophy in London recently for their outstanding achievements to date from the Institute of Marketing. Spring Bathrooms Marketing Director, Malcolm Robinson (centre), is seen here with the British Overseas Board Chairman, Lord Jellicoe, and the President of the Institute of Marketing, Sir Patrick Meaney. Spring are represented here by Ferguson Factors.

Briefly . . .

● **Pressure dampers:**

Waterloo Grille Co Ltd have recently published a new four-page brochure that describes and illustrates their BPD series of back pressure dampers and includes full technical details and a performance nomogram. Copies of this brochure are available from Waterloo Grille Co Ltd, Parsons Road, Manor Trading Estate, Benfleet, Essex, SS7 4PT.

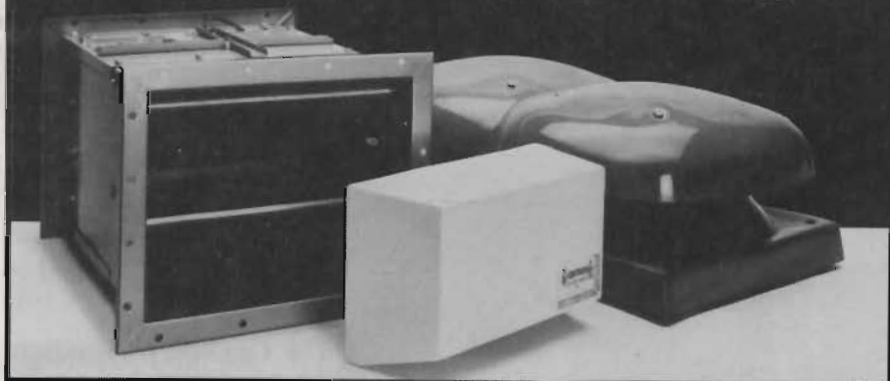
● **Alternative drainage:**

The latest edition of the report commissioned by the Clay Pipe Development Association on the comparative costs of alternative drainage systems for an estate of 40 houses is now available. The report takes into account all the fluctuations in list prices of drainage materials and changes in other costs since the previous edition, dated 8 November, 1982. Costs are

shown for foul drainage systems using either traditional inspection chambers, GRP inspection chambers or rodding point access, and for rainwater drainage systems. Copies and information may be obtained from Director of Engineering Services, Clay Pipe Development Association Ltd, Drayton House, 30 Gordon Street, London, WC1H 0AN.

● **IIRS Directory:** The Institute for Industrial Research and Standards has produced another publication in its industrial directory series. This latest compilation "Irish Industrial Laboratory Directory" was published last month. The directory provides a comprehensive reference to private and state-funded laboratories who offer analytical services to Irish industry. Copies (at £5.00 each) are available from the IIRS, Ballymun Road, Glasnevin, Dublin 9, (Tel: 370101 extension 320).

GEMINI TWIN FANS



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MAICO UNIT VENTILATORS



ROOF EXTRACT UNITS



EUROFLOWS & EUROFLOIL EXTERNAL ROTOR AXIAL FANS



EUROFLOW IN-LINE DUCT FANS

As more and more local authorities are specifying fans requiring stand-by capability, Roof Units Group are adding to their comprehensive range of twin fans and, with duties ranging from 40 to 4615 c.f.m. and performing against pressures up to 1.5 ins w.g. offer an extensive product range.

The Gemini Mini-Twin is in surface, flush or ducted versions and is complete with built-in electronics to give automatic change over and adjustable time delay as standard, and duty-sharing as an optional feature.

The G2 range of roof mounted twin fan extract units has 10 different models each with two independent fans, giving full stand-by. In a high quality glass fibre housing they are strong, durable, and complete with non-return shutters, bird guards and isolators.

The TDF range of duct mounting units provide full run and stand-by with two independent fans in a housing of heavy gauge mild steel, flanged at both ends, and again complete with non-return shutters and isolators.

A range of ancillary equipment includes soaker sheets, terminal cowls, change over panels and speed controllers.

roof units group

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Chillers Aid 'Floppy' Production

Three variously sized Carlyle 30GA air-cooled liquid chillers supplied by Walker Air Conditioning, Dublin, authorised Carlyle distributors, are providing cooling and humidity control under the most exacting conditions in the most contemporary environment.

Optimum atmospheric conditions must be maintained 365 days a year, 24 hours a day in the production areas of Verbatim Ltd, on the new Raheen Industrial Estate in Limerick. Here the highest quality, flexible 'floppy' discs are being produced for the Verbatim Corporation, the world's leading supplier of premium quality removable magnetic storage media, including discs and data cassettes.

These 'library books' of the future need manufacturing conditions far cleaner, cooler and more constant than were

ever required for the production of plain old paper.

Walker's role has been to supply the most reliable, tailor-made, packaged air conditioning from Carlyle to match the technology of today's computerised way of life.

The system used at Verbatim comprises one Carlyle 30GA055 reciprocating chiller, operating with a capacity of 50 TR to chill water to a leaving temperature of 40°F, one 030 model chiller with a capacity of 22.5 TR, and one 085 model with a capacity of 72.6 TR.

These machines have the undoubted advantage of being able to save up to 12% in operating costs due to the special design feature of oversized condensing surfaces which permit automatic liquid sub-cooling — increasing capacity with no increase in power consumption.



● One of the three Carlyle 30GA air-cooled liquid chillers supplied by Walker Air Conditioning to Verbatim in Limerick.

Savaflush Seek Irish Distributors

Savaflush Ltd, makers of the first electronically controlled flushing system for reducing water consumption in men's urinals, is seeking distributors in the Republic.

The Savaflush, introduced to the UK market in 1982, is a

micro-electronic device that regulates flushing frequency independently of influences such as fluctuations in water pressure.

A triggering device, which can be a magnetic door switch or a sonic beam, is activated when someone enters the urinal

area and starts a timer preset to either 20, 30 or 60 minutes. After the set time the urinals are flushed and the timer is reset.

Details can be obtained from Savaflush Ltd, 272 Thornton Road, Bradford, BD8 8JU, England.

Briefly . . .

● **Lambrecht:** Smail, Sons & Co Ltd have been appointed sole UK and Irish sales representatives for Lambrecht of Gottingen. Where humidity, temperature, atmospheric pressure, precipitation, radiation, air flow and wind has to be measured, Lambrecht products have excelled. Details from Smail, Sons & Co Ltd, 129 Whitefield Road, Glasgow.

● **Gas-fired boilers:** BSI has just published a new British Standard of particular interest to commercial and industrial users of gas-fired boilers for hot water supply purposes. This is BS 5978 Safety and performance of gas-fired hot water boilers (60 kW to 2 MW input). It comes in three parts from Sales Department, BSI, Lingford Wood, Milton Keynes, MK14 6LE.



● This group was pictured at a reception in Daly Bros, Dundalk, recently when Bill Treacy, Area Sales Manager for Runtal, made a presentation to builders, heating contractors and architects. Mr Treacy explained the company's computer system for calculating heating requirements and the correct selection of the right size of boiler. He said that this service would be free of charge to contractors, builders and architects and to the do-it-yourself enthusiast. Mr Treacy stressed that Runtal is a wholly Irish-owned company, using Irish materials at its factory in Thomastown, Co Kilkenny. The winner of the raffle for a weekend for two at Jury's Hotel, Dublin, was won by Brian Keenan, heating contractor, Carrickmacross. Other suppliers who attended the trade evening were Euramp Pumps, Modern Plant (Mira Showers); Grant Back Boilers; Shires Bathrooms; Sanbra Fyffe and Ideal Standard Bathrooms. Picture shows (left to right): Bill Treacy; Pat Keane, Commercial Manager, Runtalrad; Barry Dunphy, Director, Runtalrad; Val Daly, Director, Daly Bros; and Paddy Kerley and Owen Belton, Directors, Daly Bros.

IDHE Programme of Events

Date	Subject	Venue
7 December 1983	Visit to I.C.L. Factory, Trim, Co Meath	Assembly details to be notified later
19 January 1984	Modern Controls for Boilers	Engineer's Club, 22 Clyde Rd, Dublin 4, 7.30 pm
23 February 1984	Safety Standards for Gas Installations plus film — The Construction of the Dublin-Cork Gas Main	Engineers Club, 22 Clyde Rd, Dublin 4, 7.30 pm
22 March 1984	Estimating and Costing for the Domestic Contractor	Engineer's Club, 22 Clyde Rd, Dublin 4, 7.30 pm
12 April 1984	Modern Boiler Developments	Engineer's Club, 22 Clyde Rd, Dublin 4, 7.30 pm
May 1984	Golf Outing — sponsored by Cape (Ireland) Ltd	Elm Park Golf Club — Assembly details to be notified later

Other meetings suggested will be made available depending on demand, (1) Visit to IIRS thermal lab; (2) Lecture and discussion on insurance for the domestic contractor.

For further details contact Katrina McTernan, Correspondence Secretary, 18 Aranleigh Vale, Rathfarnham, Dublin 14, (Tel: 945257).

● Continued from cover
Thorn's own share in the UK. Hevac already have in the region of 40% of the domestic oil market and, in the end of the day, anticipate a similar hold on the gas side.

● In the meantime, and perhaps less surprisingly, Hevac have been appointed exclusive agents in the Republic for Nu-Way. This they shared with John R Taylor prior to the collapse and, while there was talk initially of others getting the Taylor half, the matter has now been clarified with Hevac's appointment as sole distributors.

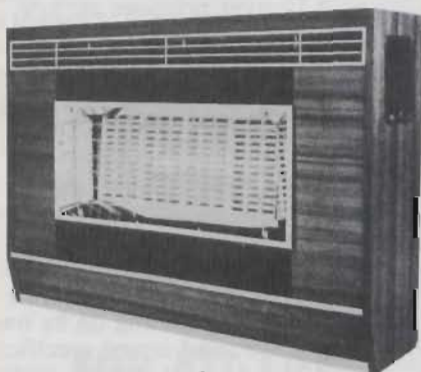
HONEYPOT

● Continued from cover
ing district, is now being surveyed and it's anticipated that the team will have arrived at the fifth district, working in a westward fashion, by Christmas.

Shortly afterwards, those lucky 15 installers can expect to find themselves working around the clock.

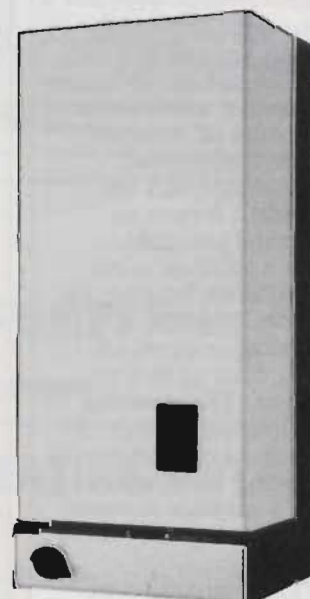
Potterton and Gas

A partnership people warm to



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● Netaheat Wall-hung
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**EUROHAUL CENTRE, GREENHILLS ROAD, TALLAGHT, Co. DUBLIN. TELEPHONE: 519711
TELEX: 24718/24779 EI.**

Agents for: Potterton Gas & Oil Fired Boilers

Hevac Negotiate Exclusive Deal with Thermo-Air Ireland

In line with the J S Lister policy of purchasing high quality goods of Irish manufacture whenever possible, Hevac Ltd negotiated an exclusive agreement with Thermo-Air Ireland Ltd for the sale of their oil and gas heaters in the Republic of Ireland.

Thermo Air have been manufacturing air heaters in Holland since 1947 and

have sales offices in Belgium, West Germany and England.

They commenced manufacturing in Carlow in 1981 and demand for their product was such that they added an extension in July 1982.

Approximately 50 to 60 440,000 Btu/h air heaters have been installed in IDA factories at Cork, Westmeath, Dublin, Louth

and Galway over the last few months and have been commissioned with an average efficiency of 83%.

Prior to the availability of Thermo-Air heaters virtually all air heaters used in Ireland were of foreign manufacture.

Hevac Ltd, as one of the leading heating distributors in this country, are pleased to be associated with Thermo Air Ltd in marketing the range of quality Irish manufactured air heaters.

The heaters were put through a series of exhaustive tests by the IIRS. The tests were satisfactorily concluded on the 2 July 1982.

Briefly . . .

● **Landis & Gyr:** Landis & Gyr has issued a new four-page gatefold leaflet explaining the range of service contracts provided



by the company for the maintenance of all makes of HVAC control systems. The attractive, full-colour leaflet advised on commissioning, service agreements, modernisation and breakdowns. Copies can be obtained from the Comfort Control Division, Landis & Gyr Ltd, Victoria Road, London W3 6XS.

WALKER INTRODUCE THRIFTY NEW HEAT PUMP UNIT

A new, completely packaged water source heat pump has been announced by Walker Air Conditioning Ltd, authorised distributor of Carlyle air conditioning and refrigeration equipment throughout Ireland.

Designated the 50VQ, this compact unit can use heat from any available water source which has a temperature of between 60° - 90°F to provide comfort conditions for apartments, houses or commercial premises.

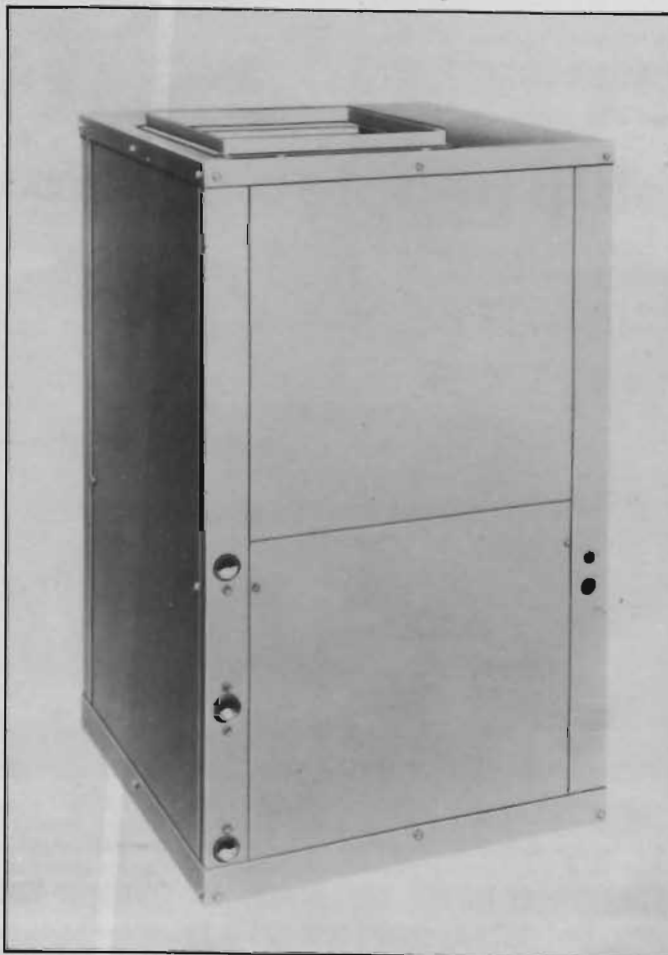
With a COP of more than 3.0 when heating, the 50VQ could prove economical in terms of running costs as well as first costs. This machine can utilise waste water, its compactness ensures fast unobtrusive installation, and as a package it means reducing piping and wiring costs.

A closed circuit loop installation, with multiple units interconnected to a boiler and cooling tower would permit maximum utilisation of the total energy within the loop, preventing any energy waste.

The 50VQ is available in three unit sizes, 21, 24 and

35.5 thousand Btu/h nominal cooling, with heating capacities of 22, 25 and 36 thousand Btu/h.

All three sizes are available with either copper or cupro-nickel heat exchangers.



● The new Carlyle 50VQ packaged water source heat pump from Walker.

● Grada-Netaline move:

On November 2 1983 Grada-Netaline's London Office moved from Chesham Place, SW1 to larger premises at: 5/9 Eden Street, Kingston-Upon-Thames, Surrey KT1 1BQ. Tel: 01-541 0959 Telex: 918931.

● Tool industry show:

"No longer a side show on the periphery of a larger broader-based event, but an exhibition in its own right, standing on its own feet, and aimed specifically at the tool manufacturing industry and the tool trade." This is how Select Exhibitions Managing Director, Mel Bosher, sees the first Exclusively Tools Trade Fair scheduled for the Kensington Exhibition Centre in the heart of London from 14-16 May 1984. Details from Select Exhibitions Ltd, Bell House, 52 Worley Road, St Albans, Herts, AL3 5NN.

New Permastack Chimney System

et al.: H & V News

Sooner or later someone was bound to come up with an Irish-made precast insulated chimney system and a new product known as the "Permastack" chimney has recently been introduced by MacCann & Byrne Ltd, Athboy, Co Meath. The Permastack includes several innovative features, the design consultants are Couchman and Associates and the system has been developed

in consultation with the IIRS to conform with all relevant chimney standards. An important feature is the speed of construction. The makers tell us that one-day installations are quite usual.

The basic components of the Permastack chimney include an outer, square, section in pumice-based insulating concrete and an inner cylindrical section in



● Constructing a Permastack chimney.

JOHNSON CONTROLS

Johnson Controls, one and two stage electronic thermostats (distributed by Manotherm Ltd) are designed for a large variety of one/two stage applications where accurate and reliable performance and/or remote sensing is of prime importance.

The wide range thermostat, combined with thermometer, makes the control applicable in the fields of a.o. refrigeration, heating, ventilation, air conditioning and heat pumps. The A61 has one stage with change over contacts (SPDT) to be used in either heating or cooling applications. The A62 includes two stages

with single pole contacts (SPST) for use in two stage cooling, two stage heating or one stage cooling/one stage heating applications.

These controls are designed for operating or limit control applications. Where critical or high value products are to be maintained within a specific temperature differential. One control only should not be applied to function as both an operating and limit control.

In these applications a separate limit control with alarm contacts should be wired to indicate when the limit control operates.

a lightweight clay aggregate with high temperature, high-alumina cement. The inner sections are jointed with a quick-assembly stainless steel socket system; in the interests of durability, the combustion products cannot come into contact with the stainless steel.

There is a particularly effective fixing system, also in stainless steel, which anchors two sections at a time, precast capping and throat units and a soot door/flue connection system involving the use of durable cast-aluminium components.

A reinforcing system is also available for unusually high free-standing chimneys. It would seem that the entire design philosophy is centred around the need

for the chimney to last as long as the house and that it should be part of the house. Confirming this philosophy, the manufacturers actually issue a 75 year guarantee.



● Tom Philips has been appointed Managing Director of The Rawlplug Company of Ireland Ltd. Prior to this appointment, Mr Philips, who has been with the company since 1973, was Sales Director.

SMC

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CIBS ANNUAL DINNER



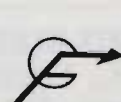
While some may have had reservations about the change of venue for this year's CIBS annual dinner, the choice of the President's Hall, Incorporated Law Society, proved exceptionally well-suited to the purpose in hand. The fact that the evening was kept informal also helped make it a success, as indeed did the cost per head. This was an all-time low and the Committee deserves great credit for organising such fine fare for such a small outlay. Main speaker was Lewis Healy, Head of Commercial Department, ESB. He was followed by CIBS President, John Bolton while Sam Stephenson, Stephenson Associates, rounded off the evening's formalities. Space limitations in this issue prevented us from using any other photographs other than those appearing here.



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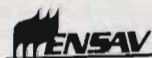
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ULSTER NEWS

et al.: H & V News

Isaac Reid Gets 'Life'

On 3 October last Isaac C Reid celebrated 21 years in business. This date coincided with the opening of Mr Reid's latest venture "The House of Heating" at 126 Frances Street, Newtownards.

Many of Mr Reid's business associates joined him to celebrate this occasion. Guests were greeted by Mr & Mrs Reid and, after a merry reception, Mr Reid welcomed all present. He thanked his many colleagues for their unfailing support over the past 21 years. He had a special welcome for Sir Brian & Lady Morton. "Sir Brian" he said seemed to have an unending stream of water from burst pipes in the winter of 1962. Most of the repair work seemed to come in my direction, which was most welcome at the time".

Sir Brian said it was a great pleasure for him to open the showroom and to be associated with this great Ulster success story. He referred to Mr Reid's reliability which he felt was the hallmark of his success. The birthday cake was cut by Lady Morton and it was then that events took a turn that Mr Reid

had not anticipated. Hazel Henderson (with apologies to Eamonn Andrews) presented "This Is Your Life".

The story of Mr Reid's life was traced back through his early working life to the launching of his company in 1962. Mr Reid's workforce increased during the mid sixties and he was most surprised when very many of his former employees were introduced, recalling many memories.

Mrs Henderson then referred to the launching of "One Day Installations" in 1968 when Mr Reid became the sole Parkray one-day-installer for Northern Ireland. Mr Reid's company continued to thrive and expand. He handled many contracts for building contractors, The National Coal Board and Northern Ireland Housing Executive.

In 1972 he opened his first subsidiary company — Town & Country Heating Company, now under the management of Bob Harper. Two further subsidiary companies have since been opened — Bangor Heating Company managed by Jim Reid and Movilla Heating Company managed by John McCahon.

Many colleagues added their tributes and good wishes to Mr Reid as the story progressed.

So the life of Isaac C Reid was recalled. It is a success story which developed from a one-man business in 1962 to a thriving company which today has four subsidiaries.

A most delicious buffet supper brought this enjoyable celebration to a close. It is an evening that will be long remembered by all who were fortunate enough to attend.

New Distributor Appointed for Chimflex SF

Rite-Vent have appointed Stephenson Turner of Mallusk, Newtownabbey as the distributor of their new revolutionary flexible flue liner for solid fuel application, Chimflex SF. The product is manufactured from high grade stainless steel with a 316 liner and a robust outer casing of stainless steel type 409.

Chimflex SF is designed to line existing brick stacks which are in a poor state of repair. Rite-Vent guarantee Chimflex SF for ten years against corrosion by the products of combustion as emitted by the burning of gas, oil, wood and coal.

For more information contact Ronnie McCulloch on Glengormley 48331.

McGregor & Manning Celebrate Anniversary

McGregor & Manning Ltd who celebrate their 25th Anniversary this year, recently held a very successful show in the Drumkeen Hotel to publicise their appointment as sole agents and distributors in Northern Ireland for Warmastyle Radiators and Wilo Domestic Accelerators.

Both products are already known to sections of the trade in the territory. However, it is the intention of the new agents to secure a larger share of the market by specification and by carrying "back-up" stocks.

The latter should encourage more



● Hazel Henderson presenting Isaac Reid with a record of twenty-one years in business.

merchants to become stockists when they are aware that small lots for "topping-up" their stocks are readily available.

For further information, sales and technical leaflets etc call Belfast 731816.

IDHE Branch Meetings

The Northern Ireland Branch of the Institute of Domestic Heating and Environmental Engineers held the first of their winter lectures at the Woodlands Hotel, on an interesting subject, the link-up of a fully automatic oil or gas fired heating system to a solid fuel appliance.

Mr Charles Turner of the Coal Advisory Service provided an interesting talk on their development while Mr Baker, Director of the Baker System provided a lecture supplemented by diagrammatic slides of their circuit neutraliser. Participation by the audience of 53 kept both lecturers going until 10.00 in the evening.

● The next branch lecture will be on Wednesday, 25 January, 1984 at the Chimnex Corner Hotel, Glengormley, 7.00 pm for 7.30 pm. The subject will be an update on the electric wet heating system by Sam Patterson, Technical Officer, NIES.

The second lecture of the Northern Ireland Branch of the Institute took place recently, the talk being provided by Mr A Janelid, the Swedish Managing Director of Keddy chimneys on "A fresh look at insulated chimneys".

Mr Janelid expounded on the virtues of having a well insulated chimney so as to maintain the thermal buoyancy of the flue gases in relation to the chimney.

A new chimney system produced by Keddy and manufactured with volcanic lava rock provided those present with an interesting evening.

North-South Gas Link Decision

At long last we have a decision on the North-South gas link with the signing of an agreement between the two respective Ministers for Industry.

So far little has been said about the deal but work is supposed to start immediately on the preparation



● IDHE Northern Ireland: At lecture in the Woodlands Hotel, (12 October) on the interlink systems available were: (L-R) David Bell, Hon Treasurer, IDHE; Brian Page, Chairman, IDHE; Charles Turner, Head of Technical Offices, Local Advisory Service and Jake Baker, Director, Baker Systems Ltd.

of contracts for the laying of the pipe from Dublin to Belfast and later to Derry.

There has been no firm indication of the price to be paid for the gas except that it is tied in some way to the price fluctuations of oil prices and the dollar. It is suggested that eventually the consumer will pay about 25% less than at present.

One cannot help being slightly suspicious of the true economics of the link up with so much secrecy about the prices and conditions of the contract — after all, it is public money that is being spent to finance the project.

A new company, NIGAS, will be set up by the Government to formulate the marketing policy and the general administration. We will have to wait and see what the position of the various gas companies will be.

Wilo Pumps from Environmental Supply Company

The Environmental Supply Company Ltd have recently added Wilo commercial and industrial

pumps to their long list of products available from stock at their Belfast warehouse.

At an exhibition in the Drumkeen Hotel, they displayed some of the extensive range of pumps which are manufactured by Wilo in Germany. These include heating, domestic hot water and chilled water accelerators, submersible, end suction and multi stage pumps together with a unique range of associated control equipment available only from Wilo.

A spokesman for Environmental Supply said that from the interest shown in the products at the exhibition, combined with availability and a competitive price structure, they were confident Wilo pumps would be very well received on the Northern Ireland market.

Local Firm Looks for Exports

K Y Mechanical Services of Edenderry Industrial Estate on Belfast's Crumlin Road, have been successfully looking for orders from the rest of the UK. The firm's Managing Director George Keenan is anxious to expand and develop his



● At a recent Nationwide Refrigeration Supplies exhibition in the Drumkeen Hotel to launch Refrigeration Wholesale at the 19th UK distribution outlet were: Roy Ainscough and Brian Barnes, NRS; Jim Skerrit and Terry Nickels, Refrigeration Wholesale; and John Kubilius, NRS.

CIBS (NI REGION) PROGRAMME

Chairman:

T Jackson MCIBS

All meetings will be held in the Edinburgh Room, Park Avenue, Belfast at 18.30 unless otherwise stated. Tea and sandwiches at 18.00

Monday 12 December

Lighting Division's Chairman's Address, by P Stone

1984

Monday 9 January

Application of VAV Systems, by D Kelham

Monday 13 February

Conversion to coal fired boiler-plant, by D Willis

Monday 12 March

New CIBS Code of Practice for Interior Lighting, by P Boyce

Monday 9 April

Annual General Meeting at NIES Training Centre, Nutts Corner



● George Keenan, Managing Director of KY Mechanical Services.

company by being involved in the manufacture and supply of precision pipework to companies across the water.

The firm was started in 1977 and has grown steadily despite the general economic recession, particularly in the mechanical and industrial engineering sectors. The services offered by the firm include the fabrication and installation of process plant and pipework, heating and ventilation, refrigeration and instrumentation. The workforce has grown throughout the year and now stands at the figure of 19.

Briefly . . .

John McVicar, late of McNaughton Blair has gone into business on his own account trading as John McVicar Ltd at 8 Linfield Industrial Estate, Linfield Road, Belfast.

He has been appointed, along with Messrs Robert Lyttle of Claudy, Co Derry, and J S Fisher Ltd of Newry, a distributor for Aga in Northern Ireland.

The Sole Agent for Aga Rayburn is Ian Kennohan, Balloo Industrial Estate, Bangor, Co Down.

IES Industrial (Ireland) Ltd based at 21 Station Street, Belfast and Dawson Street, Dublin, have been re-appointed agents for Babcock Bristol for the Republic of Ireland area, they already being agents for Northern Ireland.

Mr Bob Moore has formed his own company Associated Engineering Ltd at 29 Downshire Road, Belfast.

Mr Moore has been connected

with the heating industry for many years and has already acquired a number of prominent agencies. These include NoVenco air conditioning units, Filtration, (Water Treatment) Ltd and also the Trianco Redfyre Industrial range.

Following the sad death of their NI Representative Kevin de Lary, Flakt Products of Staines have appointed Environmental Agencies Ltd of Connswater, Belfast, their agents for Northern Ireland.

John Kelly Ltd — Agency Department — of 23 Station Street Belfast have been appointed agents and distributors for Northern Ireland for the complete range of steam and hot water boilers



● David Reynolds has been appointed Wavin-Gas Manager for Northern Ireland. David is a qualified engineer with many years experience in the construction and maintenance of high and low pressure gas distribution systems. He has been with Wavin for nine years involved alongside the British Gas Corporation in standards, training, product development and technical services. His responsibility included overseas contracts in Algeria, Egypt, Spain, Denmark, Holland and Germany.

manufactured by Perkins Boilers Ltd, Mansfield Road, Derby.

The Environmental Supply Co of Connswater, Belfast, have been appointed NI agent for the ventilators and cowlis manufactured by McKenzie-Martin of Manchester.

Mr John Simpson, the well known broadcaster on economic affairs was the speaker at the last meeting of the NI section of the Institute of Energy.

Mr Simpson spoke on the "Energy Issues" publication recently issued by the Government. He was particularly critical of the many delays there had been in the decision regarding Kinsale Gas and the conversion of Kilroot Power Station to coal. Interesting tables were produced showing how NI was committed to oil particularly when compared with other European countries.

Mr Simpson was of the opinion that it would be economically correct for coal to have a larger part of the energy market and that on the figures as he knew them, it was doubtful if Kinsale Gas could meet the Government's criteria of being economically viable.

Mr Charles Brett is retiring from the position of Chairman of the NI Housing Executive. He is retiring at his own request to return to his family firm of solicitors.

ANOTHER SIDE OF... ...ANOTHER SIDE OF...

TOM SCOTT

For Tom Scott, recently appointed Director of Hevac Ltd, team spirit has always been a very important part of his life. This spirit goes back to his early days in his home town of Baltinglass, Co Wicklow, where he was deeply involved with local hurling and football.

But it was not for his home town or county that he gained one of the most unique achievements in the history of sport in Ireland. It was while in the Air Corps when he played on the winning team of the football, hurling, soccer, rugby, and basketball finals, all in the one year.

The fact that no one had before, or since, been able to gain this distinction indicates the calibre of sportsman Tom was. It would be fair to say that Tom was a sports fanatic and could almost have been regarded as a professional sportsman during his time in the Air Corp.

Coming forward to the present day, Tom feels that all the experience he gained, both in the Air Corp and through sport, has been of great value to him in his working day. He likes to think of those working with him as part of a team with success as the goal.

Hevac, which is part of the Lister Tubes Group, has seen many changes over the last few years but today it must be regarded as one of the leading heating companies in the country, with a range of products second to none. Tom joined Lister Tubes five years ago and became General Manager of Hevac about a year and a half later.

Tom, as well as being a director of the company, is also the Chief Executive and indeed, fulfills a number of other functions in the company.

In the domestic heating end of the business Hevac, according to Tom, handle the following products: Thorn EMI Heating boilers;

Kamina Chef cookers; State oil and gas water heaters; Sime oil and gas fired boilers; Chapee dual fuel boilers and Riello and Nu-Way burners.

"A major success story for Hevac" says Tom "has been the Triflo capillary fitting range suitable for Irish standard copper. Hevac were the first to introduce capillary fittings suitable for Irish tube and we have since gained a substantial share of the copper fittings market."

In the industrial sector, Hevac have some very successful products including Allen Ygnis industrial boilers; Nu-Way burners — both gas and oil; Thermoair Irish-made air heaters; Selkirk Metalbestos chimneys; and Swank gas radiant heaters.

As can be seen from this line up, Hevac are well prepared for conversion to natural gas and what is even better to see is that Irish

products — namely Thermoair air heaters — featuring strongly in that line up.

To get back to Tom's sporting interests, one has to really go back to his days in the Air Corp. He joined the Apprenticeship Scheme in 1959 and stayed in the Air Corp for nine years. After four years training he went on to become a training instructor himself, instructing on pneumatics and lighting, among a number of other things. He found that in work as well as sport he got on well with people and with is undoubted natural skill as a sportsman, found himself in great demand for the various team events.

As far as he can recall, he played every team sport that was played at that time in Air Corp competitions. These competitions were played, not only by the Air Corp itself, but by the army

in general and in fact Tom captained the All-Army team in football and played on the All-Army team for hurling. In all, he had eight All-Army football finals to his credit.

In civilian life sport was just as strong as in the army, Tom having played with Wicklow county football and hurling teams for 14 years in the Leinster League and the Railway Cup. On one occasion Tom actually played for Wexford against Kilkenny in New York. The game was drawn and had to be replayed a week later. What happened in the week between matches is best left to Tom to tell you himself. He also played rugby for Arklow.

Yet another side of Tom is the time he spent as an official photographer for the United Nations in Cyprus. He was taking pictures for the UN magazine *Blue Beret* and in fact sent home many pictures to the Irish national newspapers of events related to Irish troops in Cyprus.

Today Tom lives in Portmarnock where he is married with three boys aged 11, 8 and 6. None as yet show any great promise as athletes but it is still too early to say if any of them will follow in his sporting footsteps. At 42 he has just given up playing for the local GAA club and that was due to pressure of work rather than lack of fitness, as up to recently he was running eight miles a day each morning before going into work.

He now plays some golf, but his great love is trout fishing which he enjoys with his family at weekends and at holiday time.

However, suspecting that such activities are too "tame" for the man, it's not surprising to hear that, time permitting, he intends to start training in January for next year's Dublin City Marathon.

TEAM SPIRIT THE ORDER OF THE DAY FOR SPORTING TOM



● Tom Scott, receiving one of his many trophies during his army days.

The McWHINGE FILE et al: H & V News

Ever attentive to our readers wishes, we asked our Ballychilly correspondent to make enquiries about the present whereabouts and welfare of the actors in the great McWhinge drama of so many years ago. Knowing the wild McWhinge's fiery disposition, he was discreet in his enquiries; well, all our correspondents are discreet men anyway, but we are happy to be able to report that the lady in question is still alive and well and living at The Sheilings, Ballychilly. So nice to hear of old friends at Christmas time!

Her heating system is now more than 10 years old, which is no age for a properly installed job. After the Sleeveen Heating Company, or rather the part-time messers employed by Samuel Sleeveen, made a complete dog's breakfast of her heating system, nearly demolishing the house in the process, the fortunate find of a hidden store of money enabled a fresh start to be made.

This time Mrs McWhinge had the sense to use the services of Jerry Bibcock, proprietor of Messrs Bibcock and Boyle. She did, therefore, eventually get a decent job done which, like almost every domestic heating job 10 or 12 years ago, was oil fired. As Shakespeare said "There's the rub!". In those happy far-off days you could heat a house with oil for less than £100 a year. Now, in her declining years, poor Fanny is feeling the draught in more senses than one!

Jeremiah Bibcock is still very much in business and trading under the same name. His partner, Mr Boyle, left the business some years ago and bought a pub. Mr Boyle told our correspondent that he had not quite lost his former habit of dodging down a sidestreets when he sees his bank manager coming, but he is working on it. Nowadays he dodges tax inspectors, but his bank manager loves him!

Meanwhile, Jerry Bibcock is still struggling away, staying in business because of his good reputation while watching successive generations of cowboys get rich.

Talking of cowboys, Samuel Sleeveen is as plumb and prosperous as ever. After his last spell in Ballygrin prison he got out of the poteen business but he told our correspondent that he was very tempted to go back to it "now that judges have stopped sending people to jail unless it's murder or disrespect to a TD".

Samuel has done well for himself in other directions though. In the latter part of the Seventies he was in the double glazing business and his salesmen invaded most of the doorsteps west of the Shannon. Then, when that trade was cleaned up (well more or less cleaned up) he expanded his installation business just when the grants were flying thick and fast.

When the joint and several activities of Coal Information Services, the IDHE and the IIRS saved the public from the worst effects of the cowboys and their products, our hero was tempted by the prospect of entering the travel agency business; but that was cleaned up before he could really get into his stride.

Another character in our little drama of the Seventies was Fortinbrass McWhinge, Fanny's nephew.

Fortinbrass was, and still is, a civil servant. There are those who are gently contemptuous of civil servants, dismissing them as harmless poor devils, addicted to nothing worse than the teapot and quite unemployable in any other capacity. Fortinbrass McWhinge cannot be so treated.

Those who admired his epistolary style of long ago will be glad to learn that Fortinbrass has achieved promotion. By diligently ensuring that nothing was done without a precedent and, when in doubt, ensuring that nothing was done at all, Fortinbrass has now reached the dizzy heights of an SBO (Senior Beaucroatic Officer) Grade 2.

His inspiration is, of course, as it always has been, his remarkable and indomitable Aunt. In fact, he never hesitates to give her credit and one of his favourite expressions is "It's all my Aunt Fanny".

It was on the subject of this remarkable lady that our correspondent really let himself go. She was no chicken when we first recorded her activities in the early Seventies. By this time she must be approaching the point where consideration will be given to listing her as an ancient monument. The passing years have not, however, slowed her active brain. Or her tongue. She's still as careful with a shilling as if she meant to live for ever. She still has her family and her neighbours terrorised by the sheer weight of her personality. Maybe we should stay in touch and see what she does next.

Watch this space!



Employee Relations in the Sector

In this, the final article in our series "Analysis of the Ducting and Ventilating Industry" Ian Sweeney looks at employee relations in the sector. However, it should be noted that, with the industry in such dire straits, the figures quoted may be a little high, since they were compiled some months back when things were much better than at present.

There are no figures for numbers employed in this sector, so I have made my own calculations from information gathered, with help from Steven Tracey of the ITGWU and a past secretary of the Sheet Metal Workers Union.

very bad at the moment though this figure, in good times, can rise to well over 1,000.

(1*) Metal Workers — This figure was arrived at from figures provided by the Union;

the normal ratio of a firm; (*4, 5 and 6) — Most firms have at least one of each of these people so the figures cannot be too far out.

Earnings and hours of work — (Figures in May '83): The basic wage for a tradesman is £134.90 per week. This consists of: 40 hours of work @ £2.82 per hour; 5 hours allowed travelling time; £1.20 per day lunch money; £2.00 per week for tool money.

The basic wage for apprentices are as follows:
 First Year Apprentice — 35% of tradesman's rate;
 Second Year Apprentice — 50% of tradesman's rate;

Third Year Apprentice — 75% of tradesman's rate;
 Fourth Year Apprentice — 95% of tradesman's rate.

Apprentices work a 32-hour week and get four hours extra travelling time. They also spend one day a week at trade school for which they are paid. They also get tool money and lunch money.

Overtime rates: For weekdays up until 12 noon, the rate is time and a half. For Saturday up until 12 noon, the rate is time and a half. Anything extra is double time.

Country work: There is a subsistence allowance which varies from firm to

firm, but the average is about £52 per week plus the train fare.

The unions and employers in this sector have very little say in these rates. They are fixed within the construction industry and just followed by these small firms.

Trends in output per man hour: This is a very sensitive subject where unions and employers are concerned, however, from personal experience I think it is fair to say that the trend is slow but moving upwards. The level of technology has not changed drastically, however, a small new innovations in production are constantly being discovered which speeds up the process.

However, it must be remembered that there is a disincentive for the men to increase productivity drastically. This is due to the fact that there is only a limited market and increasing productivity can put men out of work.

Bonus schemes for early finishing have probably been the major factor in this increasing trend, but there is a limit to their effect. Many of the other restrictions have already been discussed in Section 5.

Unions involved in the sector: By far the biggest union involved is the Sheet


1*	Number of metal workers	210
2*	Number of apprentices	55
3*	Number of labourers	70
4*	Number of truck drivers	40
5*	Number of clerical staff	40
6*	Number of engineers and management	40
TOTAL NUMBER EMPLOYED		495

This final figure was a fairly accurate estimation of the numbers employed at the time of compilation. However, the market is

(*2) Apprentices — This is the number attending the trade school;

(*3) Labourers — I arrived at this figure from

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Metal Workers Union, which is based in Gardiner Street. Their membership consists of 1,100 tradesmen and apprentices. However, a large percentage of these work in semi-state bodies such as ESB, Aer Lingus, CIE and Dublin Gas Company.

These metal workers and some of the remainder are not involved in the manufacture and installation of heating and ventilation systems. There are several other unions involved but only to a limited extent:

Coppersmiths Union; NEETU, ladders and cladders; FWUT, to a very small extent.

The union is very strong especially in Dublin, and as far as I know, no firm in Dublin will employ a non-union metal worker. The relationship between the union and the employers has always been very good and there have never been any major disturbances. The situation is not as good in the country where several

firms employ non-union members at lower rates, especially on the installation side of the business.

Training facilities available: Most of the apprentices' training is directly from work experience. They must attend the school of trades in Bolton Street, one day a week. Here they are taught how to mark out drawings and weld etc. They must sit the City and Guilds Examinations after four years, but whether they pass or fail they are recognised as tradesmen and are paid the rate. Most firms will let apprentices go when they come out of their time, and they will be either referred to AnCO where they can do any number of courses associated with their trade, or else they can go to the union and look for work.

It is commonly held by the men themselves and by the employers that the most important and useful part of training is work experience. There is a

saying with tradesmen that a man can never finish his apprenticeship.

Major manpower issues: There are no major manpower issues in this sector. There is a feeling among some of the men and from other unions that the Sheet Metal Workers Union should be part of the Construction Industry Federation and not a separate entity as it is. Some feel that in the present situation, although the union has a large say in matters affecting its members, it has very little power to back this up with; whereas if it were part of the CIF, it would have less say, but more muscle. It is also felt by some that as most of the membership are actually working in the construction industry, they should be part of its union.

There have only been two issues of any importance in the last ten years:

(1) *Dismissal of Apprentices* — In 1975-76 a lot of apprentices were dismissed before they had

come out of their time. The union objected strongly and now apprentices must be kept unless they can be transferred to other employment or else the firm is closing, or in trouble;

(2) *Non-union firms* — These firms were objected to by the Union, for obvious reasons, and by employers, as they were unfair competition. The situation has never been resolved to everybody's satisfaction. However, few large building companies will hire such firms so that their interference is limited.

Conclusion

Unfortunately, since the time of compilation of this report, the ducting and ventilating industry in this country has deteriorated even further. It is now at an all-time low, the only sign of hope being that it appears to have finally levelled off. Nonetheless, the industry faces at least another year to 18 months of hard slog before things begin to pick up again.

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New Gas Cookers from Thor

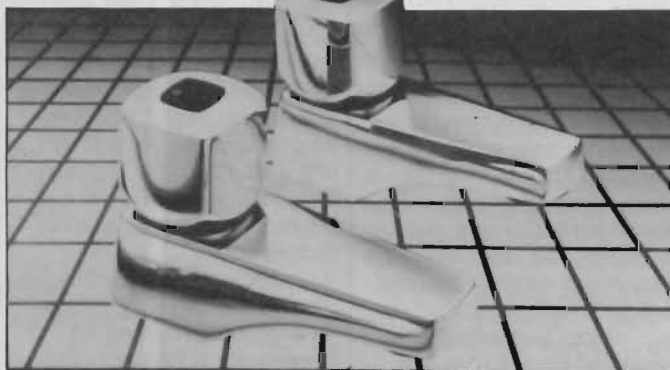
Thor Appliances Ltd have announced that they are now distributing two superb Italian, all-gas cookers, which have been designed to meet the recommendations of British Standard 5258 Part 2. They are called the Thor Venus and the Thor Saturn.

The Thor Venus comes in coppertone enamelled steel (85 x 50 x 50cm). It has four burners, (two large, one medium and one simmer), a cast iron pan support and is suitable for natural or bottled gas. The control panel is heat resistant enamelled steel and ignition is normal.

The gas oven (31 x 39 x 36cm) has a flamefailure device and double tempered glass. The bottom is removable for easy cleaning. The infra-red grill has a flame failure device, and a deflector plate when grilling. The Thor Venus also has a warming compartment, a lid which can be used as a work top and an oven thermostat.

The Thor Saturn is even bigger and better, also in coppertone enamelled steel (88.5 x 60 x 60cm). It has four burners, (two large, two medium) is suitable for natural or bottled gas and has lift-off cast iron pan supports. The ignition is electronic and there is an electromechanical timer. The lid is glass tempered, heat proof and can be used as a work top. There is also a warming compartment.

The gas oven is extra large, (36 x 44 x 47cm) with a flame failure device, tempered glass and thermostat. There is a turn-spit, two stainless steel shelves and an infra-red grill also with a flame failure device. The bottom of the oven is removable for easy cleaning and there is a protected light for easy



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viewing.

The Thor Venus and Thor Saturn are aptly named — they are out of this world! Guaranteed and serviced by Thor Appliances Ltd, 28 Cookstown Industrial Estate, Tallaght, Co Dublin, (Tel: 510355).

to most central heating systems and will enable you to benefit fully from your system in terms of comfort, convenience and economy.

Because most programmers are installed in the kitchen, it is important that they look good. The EP2000 is a very stylishly designed, yet unobtrusive, programmer which features a useful 12-hour digital clock giving both am and pm settings.

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just about every combination of heating and hot water one could possibly wish for.

Like all Potterton products, the EP2000 is extremely reliable. Even in the case of mains failure, a battery back-up facility to safeguard the memory circuit is incorporated. It is simplicity itself to install and can be fitted on any flat surface or flush mounted single or double gang socket. It can be wired directly into the system — there's no need for a junction box and it features a unique access flap that enables system circuits to be tested whilst the unit is running.

Further details are available from Heatequip Ltd, Eurohaul Centre, Greenhills Road, Tallaght, Co Dublin, (Tel: 519711); Telex 24718/24779.

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● The new Potterton EP2000 programmer.

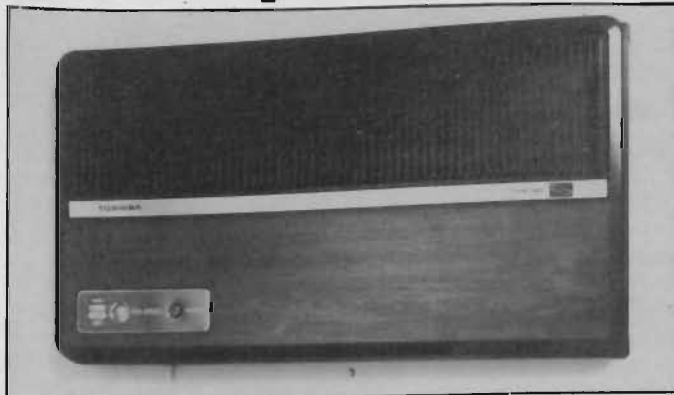
Toshiba Cost-Cutter

Toshiba has a new type of ventilating fan for the home and smaller office which is the first to adjust the temperature of the clean fresh air before releasing it into a room. This means it can save on energy costs used by central heating in the winter and air conditioning in the summer.

Because it takes heat from the warm air to heat the cooler air, it is very economical to run and uses less than one pence worth of electricity a day.

The Toshiba Heat Exchange ventilating fan is available in three models and is supplied with a three-year parts and labour warranty. The three models are: the VFE-25K — a through-the-wall unit with high speed output at 92 cubic metres an hour and low 66 cubic metres an hour; VFE-151 — wall-mounting unit with 86 cubic metres at high output and 69 cubic metres an hour at low; and the VFE-161 through-the-wall unit with

new products



● The Toshiba VFE-161 — the most powerful of the company's new heat exchange ventilating fans available from Saireco.

outputs 125 cubic metres an hour at high, 104 cubic metres at medium and 81 cubic metres at low output.

Further details are available from Saireco Ltd, 264 Greenhills Industrial Estate, Greenhills Road, Walkinstown, Dublin 12, (Tel: 521171).

Lead-Free Fittings

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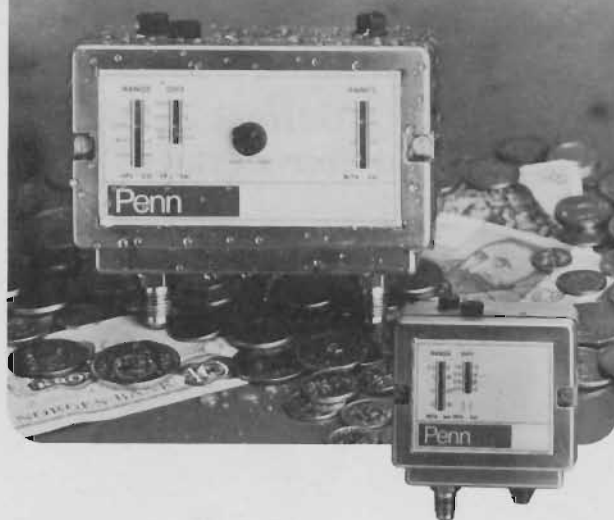
They can be identified by their knurled edge and are as safe and simple as Wednesbury's conventional range of solder-ring fittings.

Further information is available from Heatequip Ltd, Eurohaul Centre, Greenhills Road, Tallaght, Co Dublin, (Tel: 519711).



● The new Wednesbury Tube "silvering" lead-free fittings from Heatequip.

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For refurbishment use on concrete floors the polystyrene base plate is laid directly on top of the existing screed or on the structural slab if the screed is to be relaid. Again the polypropylene tube is laid into the base plate at the design centres. An expanded metal mesh is then laid on top of the base plate and secured by PVC screws. A 15mm thick screed is then laid over the system with the screed being compacted into the expanded mesh to ensure no air gaps are left. The required floor finish can then be laid on the screed with the total underfloor heating system and screed being only 40mm thick. The expanded metal mesh gives

reinforcement of the screed for strength and also gives distribution of heat over the floor surface.

Details from Multibeton's appointed installers for all Ireland, Scofield & Sons Ltd, 21 Garfield Street, Belfast BT1 1FL, (Tel: 084 243617).

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Further details are available from Wavin Pipes Ltd, Balbriggan, Co Dublin, (Tel: 412260).



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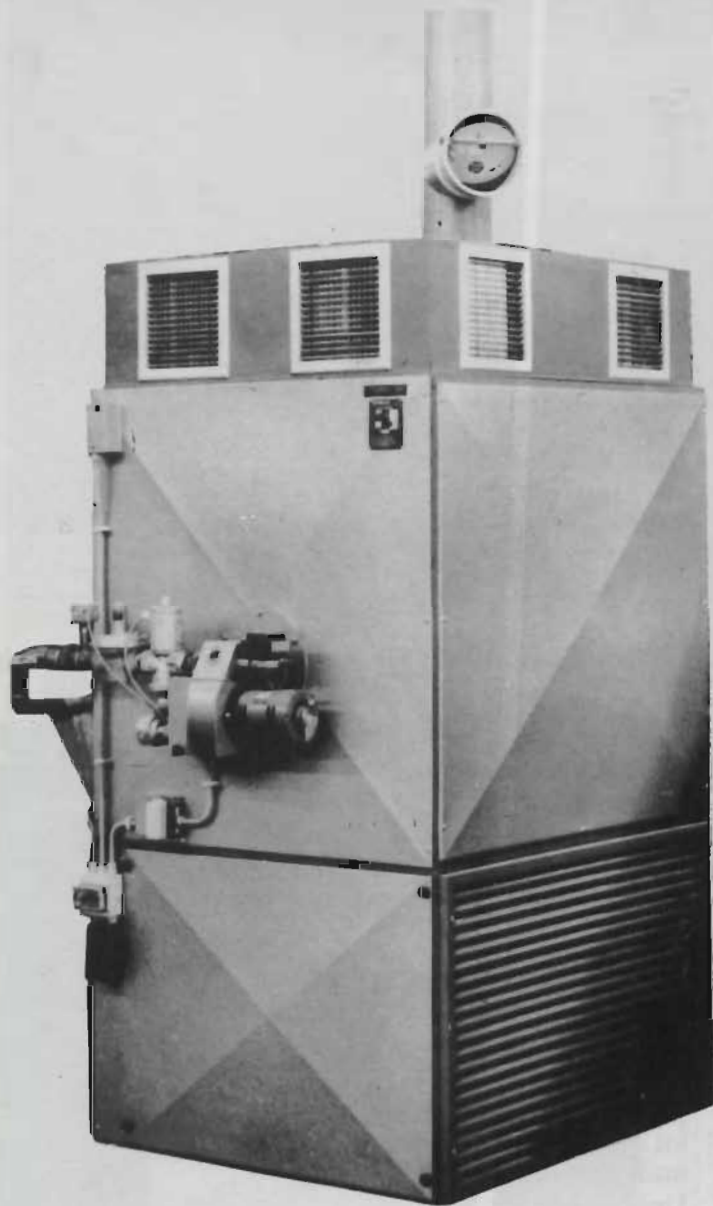
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